

# ABSTRACT

The present invention is provided with a reaction apparatus (12) that supplies carbon raw material (11) and fine particles (50) to cause carbon nanofibers to grow on surfaces of the fine particles (50), a  
5 heating apparatus (20) that heats the reaction apparatus 12, a recovery line (23) that recovers fine particles on which the carbon nanofibers have grown from the reaction apparatus, and a carbon nanofiber separating apparatus (24) that separates carbon nanofibers (52) from the recovered fine particles on which carbon nanofibers have been  
10 grown.